

In the Claims

Please cancel claims 8-20, 23, 24, 26, 33, 34, 35, and 37.

Please add new claims 42-44 as set forth below.

Please amend claims 21, 22, 25, 28, 31, 36, 39, 40, and 41 as set forth below.

A complete listing of all claims in this application is set forth below.

Claims 1-20 (canceled).

21. (currently amended) A latch assembly for a self-cleaning oven, comprising:

a support;

a motor supported by said support;

a cam rotatably driven by said motor;

a latch mechanism driven by said motor; ~~and~~

a plurality of switches supported by said support; and

a cam follower having an opening defined therein, said cam being received within said opening,

wherein rotational movement of said cam causes reciprocating linear translation of said cam follower, and

wherein ~~movement~~ reciprocating linear translation of said cam follower causes actuation of at least one of said plurality of switches.

22. (currently amended) The latch assembly of claim 21, ~~further comprising an intermediate cam structure~~ wherein said cam follower is mechanically interposed between said cam and said plurality of switches.

Claims 23-24 (canceled).

25. (currently amended) The latch assembly of claim 24 21, wherein said cam follower includes:

a cam plate having a plurality of tracks, and
a plurality of switch actuators respectively disposed within said plurality of tracks.

Claim 26 (canceled).

27. (previously presented) The latch assembly of claim 25, wherein said plurality of switch actuators are respectively movably settable along said plurality of tracks.

28. (currently amended) The latch assembly of claim 21, wherein:
said plurality of switches includes an upper set of switch arms and a lower set of switch arms, and
movement reciprocating linear translation of said cam follower causes at least one upper arm of said upper set of switch arms and a respective at least one lower arm of said lower set of switch arms to contact each other.

29. (previously presented) The latch assembly of claim 28, wherein:
said upper set of switch arms includes a plurality of upper terminals aligned in a first row,
said lower set of switch arms includes a plurality of lower terminals aligned in a second row, and
said second row is positioned below said first row.

30. (previously presented) The latch assembly of claim 21, wherein:
said support includes a housing having an opening defined therein,
said latch mechanism is positioned in said housing, and
said latch mechanism includes a latch arm that extends through said opening defined in said housing.

31. (currently amended) A latch assembly for a self-cleaning oven,
comprising:

a latch housing;

a motor supported by said latch housing;

a cam rotatably driven by said motor;

a cam follower having an opening defined therein, wherein (i) said
cam is received within said opening, and (ii) rotational movement of said cam
causes reciprocating linear translation of said cam follower;

a latch mechanism driven by said motor, said latch mechanism
being located within said latch housing; and

a plurality of switches supported by said latch housing, wherein (i)
said plurality of switches includes an upper set of switch arms and a lower set of
switch arms, and (ii) ~~movement~~ reciprocating linear translation of said cam
follower causes one of said upper set of switch arms and one of said lower set of
switch arms to contact each other.

32. (previously presented) The latch assembly of claim 31, wherein:

said upper set of switch arms includes a plurality of upper terminals
aligned in a first row,

said lower set of switch arms includes a plurality of lower terminals aligned
in a second row, and

said second row is positioned below said first row.

Claims 33-35 (canceled).

36. (currently amended) The latch assembly of claim ~~35~~ 31, wherein said cam follower includes:

a cam plate having a plurality of tracks, and

a plurality of switch actuators respectively disposed within said plurality of tracks.

Claim 37 (canceled).

38. (previously presented) The latch assembly of claim 36, wherein said plurality of switch actuators are respectively movably settable along said plurality of tracks.

39. (currently amended) A self-cleaning oven, comprising:

an oven frame;

a latch housing secured to said oven frame;

a motor supported by said latch housing;

a cam rotatably driven by said motor;

a cam follower having an opening defined therein, wherein (i) said cam is received within said opening, and (ii) rotational movement of said cam causes reciprocating linear translation of said cam follower;

a latch mechanism driven by said motor, said latch mechanism being located within said latch housing; and

a plurality of switches supported by said latch housing, wherein ~~movement~~ reciprocating linear translation of said cam follower causes actuation of at least one of said plurality of switches.

40. (currently amended) The ~~latch-assembly~~ self-cleaning oven of claim 39, wherein:

said plurality of switches includes an upper set of switch arms and a lower set of switch arms, and

~~movement~~ reciprocating linear translation of said cam follower causes at least one upper arm of said upper set of switch arms and a respective at least one lower arm of said lower set of switch arms to contact each other.

41. (currently amended) The ~~latch assembly~~ self-cleaning oven of claim 39, ~~further comprising a cam follower mechanically interposed between said cam and said plurality of switches~~, wherein said cam follower includes (i) a cam plate having a plurality of tracks, and (ii) a plurality of switch actuators respectively disposed within said plurality of tracks.

42. (new) The latch assembly of claim 21, wherein:
said cam follower includes a rim that defines said opening therein, and
said cam contacts said rim during rotational movement of said cam so as to urge said cam follower in a reciprocating path of movement.

43. (new) The latch assembly of claim 31, wherein:
said cam follower includes a rim that defines said opening therein, and
said cam contacts said rim during rotational movement of said cam so as to urge said cam follower in a reciprocating path of movement.

44. (new) The self-cleaning oven of claim 39, wherein:
said cam follower includes a rim that defines said opening therein, and
said cam contacts said rim during rotational movement of said cam so as to urge said cam follower in a reciprocating path of movement.